

RAW SEQUENCE LISTING

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Application Serial Number: 101524/475
Source: PCT
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DATE: 02/22/2006

PATENT APPLICATION: US/10/524,475

TIME: 08:19:50

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3 <110> APPLICANT: CLINTON, MICHAEL
5 <120> TITLE OF INVENTION: AVIAN SEX DETERMINATION METHOD
7 <130> FILE REFERENCE: 102286.157 US1
9 <140> CURRENT APPLICATION NUMBER: 10/524,475
10 <141> CURRENT FILING DATE: 2005-02-11
12 <150> PRIOR APPLICATION NUMBER: PCT/GB03/003536
13 <151> PRIOR FILING DATE: 2003-08-13
15 <150> PRIOR APPLICATION NUMBER: GB 0218955.3
16 <151> PRIOR FILING DATE: 2002-08-14
18 <160> NUMBER OF SEQ ID NOS: 30
20 <170> SOFTWARE: PatentIn version 3.3
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 318
24 <212> TYPE: DNA
25 <213> ORGANISM: Gallus gallus
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30 ccgagaaaga gaacctgccc ctctaccctt gcttccaacc agaatcatga aacactgtca      180
31 cactgcggtg gtaaccatct ctgcattcct gtaacaaatc cttgcttttc tttctgtctt      240
32 tttactattg ctttcgtcct cccacctccc atcccccggc ctagctaacc aaaactttct      300
33 acaataaacc ggttgggc                                318
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37 <211> LENGTH: 796
38 <212> TYPE: DNA
39 <213> ORGANISM: Gallus gallus
41 <400> SEQUENCE: 2
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44 atgttgctag catgcgcagg gagaaaattc gacaggccaa agcccagcac gaccttaata      180
45 tggccgcat tgtttgagat gattaaaact atgtttttac gaacatatta ataagagcaa      240
46 gagggaggcc aaggagaatc tcccttcttt attcaacgcg gtggggaaca tcaccatcga      300
47 ggaggaggga aaggctgaag ttcccaacgc cttcttact tctggcttta gcagtgagac      360
48 ctgctatccc cagggtactc agccccctga gctggaagac ggggcccggg agcagaataa      420
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51 ccctgcaaaa actttgcgcg cgcttttccc ttgttgtgtt ttccttccgc ctgtgatcga      600
52 ccgagaaaga gaaccgcgcc ccccccgct tccaaccgga atcatgaaac attgtcacac      660
53 tgcggtggtg accatctctg cattcctgta acaaactcct gcttttcttt tctgtctttt      720
54 cactattgct ttcgtcctcc caccctccat cccaggcct agctaacca aacgttttac      780
55 aataaaccgg ttgggc                                796
58 <210> SEQ ID NO: 3
59 <211> LENGTH: 772

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60 <212> TYPE: DNA

61 <213> ORGANISM: Gallus gallus

63 <400> SEQUENCE: 3

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64 cgggtcaaagt gccgtcaaagt gttggcgggg caggccagga gtttgccatc tttggatgaa      60
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66 caagccaaag cccagcaaga ccttaatctg gccgccattg ttcgagatga ttaaaacaat      180
67 gttttttacga acgtattagt agcaagagga gggccaagga gaatctccct tctttattcg      240
68 acgcggtggg gaacatcacc accgaggagg aggaaaaggc tgaagttctc aacgccttct      300
69 tcaattctgt ctttagcagt gagaccagct attctcaggg tactcagccc cctgagctgg      360
70 aagacggggc cggggagcag aataaacgcc cctcaattcc cagtgccttc tttactttctg      420
71 tctgtttctga ctgttgacc ggtgctggac gtgcggttac tatgagcaac ccaaggagaa      480
72 ccagacagta tagatatata tatatgtatg gactctgcaa aaacttttgt gcgcgctttt      540
73 ccttgctgtg gttttccttc cgcctgtgat cgaccagaaa agagaacctg cccccccacc      600
74 cctgttcca accagaatcg tgaacattg tcacactgcg gtggtaacca tctctgcatt      660
75 cctgtaacaa atccttgctt tctttttctg tcttttcaat attgctttcg tcatcccgcc      720
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81 <212> TYPE: DNA

82 <213> ORGANISM: Gallus gallus

84 <400> SEQUENCE: 4

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87 atgttgctag catgcgcagg gagaaaattc gacaggccaa agcccagcac gaccttaata      180
88 tggccgccat tgtttgagat gattaaaact atgtttttac gaacatatta ataagagcaa      240
89 gaggagggcc aaggagaatc tcccttcttt attcaacgcg gtggggaaca tcaccatcga      300
90 ggaggagggg aaggctgaag ttcccaacgc cttcttcaat tctggcttta gcagtggagc      360
91 ctgctatccc cagggtactc agccccctga gctggaagac ggggcccggg agcagaataa      420
92 acgccccctc attcccagtg ccttctttac ttctgtctgt ttctgactgt tgcacctgtg      480
93 ctggacgtgc cgttactatg agtaacccaa ggagaaccgg acagtatata tatgtatgga      540
94 ctctgcaaaa actttgcgcg cgcttttccc ttgttgtgtt ttcttccgc ctgtgatcga      600
95 ccgagaaaga gaacctgccc cccccccgct tccaaccgga atcatgaaac attgtcacac      660
96 tgcggtggta accatctctg cattcctgta acaaactcct gcttttcttt tctgtctttt      720
97 cactattgct ttctgcatcc cactcccat ccccgagcct agctaacca aacgtttttac      780
98 aataaaccgg ttgggc              796

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102 <211> LENGTH: 1283

103 <212> TYPE: DNA

104 <213> ORGANISM: Gallus gallus

106 <400> SEQUENCE: 5

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107 cgcaacgggc gctcgttcca gagggcctgc gagcgcgcta ggggtggggga ggggtgggac      60
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109 aacggctcct cctcgcggat aacgttggcg gagaactcct ggcgggcgac ttttcccaag      180
110 agagcggcgc caccgcgcca ggcggccggc gacctaacga tcccgcggc catgacggcg      240
111 cccgctcgtc acaacactcc ctacgcccc aacctcccca gcacggctca gcatggctca      300
112 gcacggctcg gctcgcctcg gctcgcctcg gcccggtccc gccctcggcg gcgctcattg      360
113 ggcgcgacga gcgcgcggc cgtttccgcg cctcggttgg ctgtctcgcc tgccttttaa      420
114 gcttgtcccc gccctgtagg cggctccgct cccgctggcc cgggtgcttat cggggctcag      480
115 ggacttaggc gctgggggct ttttggtgcc gatccctccc gtcaaatggc cgtcaaatgt      540

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116 tgacggggca ggccaggagt ttgccatctt tgcataaagg gacaggcaac tcggggagag      600
117 tgcaaggatg ttgctagcat gcgcaggagg aaaattcgac aggccaaagc ccagcacgac      660
118 cttaatatgg ccgccattgt ttgagatgat taaaactatg tttttacgaa catattaata      720
119 agagcaagag gaggggccaag gagaatctcc cttctttatt caacgcggtg gggaacatca      780
120 ccatcgagga ggaggggaaag gctgaagttc ccaacgcctt cttcacttct ggcttttagca      840
121 gtgagacctg ctatccccag ggtactcagc cccctgagct ggaagacggg gccggggagc      900
122 agaataaacg cccctcgatt cccagtgcct tctttacttc tgtctgtttc tgactgttgc      960
123 acctgtgctg gacgtgccgt tactatgagt aacccaagga gaaccggaca gtatatatat     1020
124 gtatggactc tgcaaaaact ttgcgcgcgc ttttcccttg ttgtgttttc cttccgctg      1080
125 tgatcgaccg agaaagagaa cctgcccccc ccccgcttcc aaccggaatc atgaaacatt     1140
126 gtcacactgc ggtggttaacc atctctgcat tctgttaaca aatccttgct tttcttttct     1200
127 gtcttttcac tattgctttc gtcacccac cctccatccc caggcctagc taacccaaac     1260
128 gttttacaat aaaccggtg ggc                                     1283
131 <210> SEQ ID NO: 6
132 <211> LENGTH: 285
133 <212> TYPE: DNA
134 <213> ORGANISM: Meleagris gallopavo
136 <400> SEQUENCE: 6
137 tgccgttact atgagcaacc caaggagagc cagacagtgt atatatgtat ggactctgca      60
138 aaaactttgt gcgcgctatt cccttggtgt gttttccttc cgctgtgat cgaccagaaa     120
139 agagaacctg cccccccag ccccgctgcc aaccagactc atgaaacatt gtgacactgc      180
140 ggtggttaaca atctctgcct tctgttaaca aatcctcgt tttcttttct gtctttttac     240
141 tattgctttc ttcgtccac cctccatccc caggcctagc taacc                                     285
144 <210> SEQ ID NO: 7
145 <211> LENGTH: 294
146 <212> TYPE: DNA
147 <213> ORGANISM: Coturnix coturnix
149 <400> SEQUENCE: 7
150 actagtgtat gccgttacta tgagcaaccc aaacagtgga cagtgtatat ataagggctg      60
151 caaaaataag agcatatgat ttcccttgta ttttcttct gcctgtgat ggccaagaaa     120
152 gagggagaga attgacagcc tgcactgcct ctgctgacca gactcatgga acactgtcat     180
153 actgcagtga taactatctc tgcattccta taacaaaccc ttgcttttat tttcttttct     240
154 ttactatca ttttcttcat cccacctcct gtccccaggc ctagctaacc aatc                                     294
157 <210> SEQ ID NO: 8
158 <211> LENGTH: 91
159 <212> TYPE: PRT
160 <213> ORGANISM: Gallus gallus
162 <400> SEQUENCE: 8
163 Met Ser Asn Pro Arg Arg Thr Arg Gln Tyr Ile Tyr Met Cys Met Thr
164 1          5          10          15
166 Leu Gln Asn Leu Cys Ser Ala His Phe Pro Leu Leu Cys Phe Pro Ser
167          20          25          30
169 Ala Cys Asp Arg Pro Arg Lys Arg Thr Cys Pro Ser Thr Pro Ala Ser
170          35          40          45
172 Asn Gln Asn His Glu Thr Leu Ser His Cys Gly Gly Asn His Leu Cys
173          50          55          60
175 Ile Pro Val Thr Asn Pro Cys Phe Ser Phe Cys Leu Phe Thr Ile Ala
176 65          70          75          80
178 Phe Val Ile Pro Pro Pro Ile Pro Arg Pro Ser

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183 <211> LENGTH: 15
184 <212> TYPE: PRT
185 <213> ORGANISM: Gallus gallus
187 <400> SEQUENCE: 9
188 Met Lys His Cys His Thr Ala Val Val Thr Ile Ser Ala Phe Leu
189 1                      5                      10                      15
192 <210> SEQ ID NO: 10
193 <211> LENGTH: 36
194 <212> TYPE: PRT
195 <213> ORGANISM: Gallus gallus
197 <400> SEQUENCE: 10
198 Met Leu Leu Ala Cys Ala Gly Arg Lys Phe Asp Arg Pro Lys Pro Ser
199 1                      5                      10                      15
201 Thr Thr Leu Ile Trp Pro Pro Leu Phe Glu Met Ile Lys Thr Met Phe
202                      20                      25                      30
204 Leu Arg Thr Tyr
205                      35
208 <210> SEQ ID NO: 11
209 <211> LENGTH: 76
210 <212> TYPE: PRT
211 <213> ORGANISM: Gallus gallus
213 <400> SEQUENCE: 11
214 Met Tyr Gly Pro Cys Lys Asn Phe Ala Arg Ala Phe Pro Leu Leu Cys
215 1                      5                      10                      15
217 Phe Pro Ser Ala Cys Asp Arg Pro Arg Lys Arg Thr Arg Pro Pro Pro
218                      20                      25                      30
220 Ala Ser Asn Arg Asn His Glu Thr Leu Ser His Cys Gly Gly Asn His
221                      35                      40                      45
223 Leu Cys Ile Pro Val Thr Asn Pro Cys Phe Ser Phe Leu Ser Phe His
224                      50                      55                      60
226 Tyr Cys Phe Arg His Pro Thr Ser His Pro Gln Ala
227 65                      70                      75
230 <210> SEQ ID NO: 12
231 <211> LENGTH: 26
232 <212> TYPE: PRT
233 <213> ORGANISM: Gallus gallus
235 <400> SEQUENCE: 12
236 Met Leu Thr Gly Gln Ala Arg Ser Leu Pro Ser Leu His Glu Gly Thr
237 1                      5                      10                      15
239 Gly Asn Ser Gly Arg Val Gln Gly Cys Cys
240                      20                      25
243 <210> SEQ ID NO: 13
244 <211> LENGTH: 51
245 <212> TYPE: PRT
246 <213> ORGANISM: Gallus gallus
248 <400> SEQUENCE: 13
249 Met Asp Pro Ala Lys Thr Leu Arg Ala Leu Phe Pro Cys Cys Val Phe

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250 1          5          10          15
252 Leu Pro Pro Val Ile Asp Arg Glu Arg Glu Pro Ala Pro Pro Pro Leu
253          20          25          30
255 Pro Thr Gly Ile Met Lys His Cys His Thr Ala Val Val Thr Ile Ser
256          35          40          45
258 Ala Phe Leu
259          50
262 <210> SEQ ID NO: 14
263 <211> LENGTH: 5
264 <212> TYPE: PRT
265 <213> ORGANISM: Gallus gallus
267 <400> SEQUENCE: 14
268 Met Ala Val Lys Cys
269 1          5
272 <210> SEQ ID NO: 15
273 <211> LENGTH: 36
274 <212> TYPE: PRT
275 <213> ORGANISM: Gallus gallus
277 <400> SEQUENCE: 15
278 Met Lys Gly Gln Ala Thr Arg Gly Glu Cys Lys Asp Val Ala Ser Met
279 1          5          10          15
281 Arg Arg Glu Lys Ile Arg Gln Ala Lys Ala Gln His Asp Leu Asn Met
282          20          25          30
284 Ala Ala Ile Val
285          35
288 <210> SEQ ID NO: 16
289 <211> LENGTH: 32
290 <212> TYPE: PRT
291 <213> ORGANISM: Gallus gallus
293 <400> SEQUENCE: 16
294 Met Ser Asn Pro Arg Arg Thr Gly Gln Tyr Ile Tyr Val Trp Thr Leu
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297 Gln Lys Leu Cys Ala Arg Phe Ser Leu Val Val Phe Ser Phe Arg Leu
298          20          25          30
301 <210> SEQ ID NO: 17
302 <211> LENGTH: 51
303 <212> TYPE: PRT
304 <213> ORGANISM: Gallus gallus
306 <400> SEQUENCE: 17
307 Met Leu Ala Gly Gln Ala Arg Ser Leu Pro Ser Leu Asp Glu Gly Arg
308 1          5          10          15
310 Ala Thr Arg Gly Glu Cys Gln Asp Val Ala Ser Met Arg Arg Glu Lys
311          20          25          30
313 Ile Arg Gln Ala Lys Ala Gln Gln Asp Leu Asn Leu Ala Ala Ile Val
314          35          40          45
316 Arg Asp Asp
317          50
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321 <211> LENGTH: 76

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VERIFICATION SUMMARY

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